

Verification of Sequential and Concurrent Programs



**Krzysztof R. Apt
Ernst-Rüdiger Olderog**

SECOND EDITION



Springer

Verification Of Sequential And Concurrent Programs

Texts In Computer Science

**Krzysztof R. Apt, Frank S. de
Boer, Ernst-Rüdiger Olderog**

Verification Of Sequential And Concurrent Programs Texts In Computer Science:

Verification of Sequential and Concurrent Programs Krzysztof R. Apt, Frank S. de Boer, Ernst-Rüdiger Olderog, 2009-09-18 HIS BOOK CONTAINS a most comprehensive text that presents syntax directed and compositional methods for the formal verification of programs. The approach is not language bounded in the sense that it covers a large variety of programming models and features that appear in most modern programming languages. It covers the classes of sequential and parallel deterministic and non-deterministic distributed and object oriented programs. For each of the classes it presents the various criteria of correctness that are relevant for these classes such as interference freedom, deadlock freedom and appropriate notions of liveness for parallel programs. Also special proof rules appropriate for each class of programs are presented. In spite of this diversity due to the rich program classes considered there exist a uniform underlying theory of verification which is syntax oriented and promotes compositional approaches to verification leading to scalability of the methods. The text strikes the proper balance between mathematical rigor and didactic introduction of increasingly complex rules in an incremental manner adequately supported by state of the art examples. As a result it can serve as a textbook for a variety of courses on different levels and varying durations. It can also serve as a reference book for researchers in the theory of verification in particular since it contains much material that never before appeared in book form. This is specially true for the treatment of object oriented programs which is entirely novel and is strikingly elegant.

Verification of Sequential and Concurrent Programs Krzysztof R. Apt, E.-R. Olderog, 1991 This book provides a structural introduction to program verification. Sequential programs in the form of deterministic and nondeterministic programs and concurrent programs in the form of parallel and distributed programs are considered within the context of their partial and total correctness. While other books have covered verification and semantics of sequential programs this is the first book to address verification and semantics of structured concurrent programs. The book is appropriate for either a one or two semester introductory course on program verification for upper division of undergraduate studies or graduate students. It can also be used as an introduction to operational semantics. Outlines of possible one semester courses are presented in the preface of the book. Within these chapters the authors systematically discuss five classes of programs concentrating on operational semantics, syntax directed assertional proof systems, soundness proofs of the proof systems, program transformations, correctness proofs of the program transformations and correctness proofs of a substantial example. Each chapter is developed in a systematic and easy to understand manner and closes with a list of exercises. The material presented here draws on work which until now was only available in the form of advanced research publications. A large portion of the material is entirely new. This book provides an introduction to the subject which also will lead to current research problems in the areas considered.

Advances in Computing Science - ASIAN'99 P.S. Thiagarajan, Roland Yap, 2003-07-31 This book constitutes the refereed proceedings of the 5th Asian Computing Science Conference ASIAN'99 held in Phuket, Thailand in December 1999. The 28

revised full papers presented together with two invited contributions and 11 short presentations were carefully reviewed and selected from a total of 114 submissions Among the topics addressed are programming theory formal methods automated reasoning verification embedded systems real time systems distributed systems and mobile computing

Thinking Programs Wolfgang Schreiner,2021-10-22 This book describes some basic principles that allow developers of computer programs computer scientists software engineers programmers to clearly think about the artifacts they deal with in their daily work data types programming languages programs written in these languages that compute from given inputs wanted outputs and programs that describe continuously executing systems The core message is that clear thinking about programs can be expressed in a single universal language the formal language of logic Apart from its universal elegance and expressiveness this logical approach to the formal modeling of and reasoning about computer programs has another advantage due to advances in computational logic automated theorem proving satisfiability solving model checking nowadays much of this process can be supported by software This book therefore accompanies its theoretical elaborations by practical demonstrations of various systems and tools that are based on respectively make use of the presented logical underpinnings

Formal Methods Marieke Huisman,Corina Păsăreanu,Naijun Zhan,2021-11-10 This book constitutes the refereed proceedings of the 24th Symposium on Formal Methods FM 2021 held virtually in November 2021 The 43 full papers presented together with 4 invited presentations were carefully reviewed and selected from 131 submissions The papers are organized in topical sections named Invited Presentations Interactive Theorem Proving Neural Networks Active Learning Logics Theory Program Verification I Hybrid Systems Program Verification II Automata Analysis of Complex Systems Probabilities Industry Track Invited Papers Industry Track Divide et Impera Efficient Synthesis of Cyber Physical System

Correct System Design Roland Meyer,André Platzer,Heike Wehrheim,2015-09-03 This book is dedicated to Professor Ernst R diger Olderog on the occasion of his 60th birthday This volume is a reflection on Professor Olderog s contributions to the scientific community It provides a sample of research ideas that have been influenced directly by Ernst R diger Olderog s work After a laudatio section that provides a brief overview of Ernst R diger Olderog s research the book is comprised of five parts with scientific papers written by colleagues and collaborators of Professor Olderog The papers address semantics process algebras logics for verification program analysis and synthesis approaches

[Formal Aspects of Component Software](#) Silvia Lizeth Tapia Tarifa,José Proen  a,2022-11-02 This book constitutes the thoroughly revised selected papers from the 18th International Symposium FACS 2022 which was held online in November 2022 The 12 full papers and 1 short paper were carefully reviewed and selected from 25 submissions FACS 2021 is focusing on the areas of component software and formal methods in order to promote a deeper understanding of how formal methods can or should be used to make component based software development succeed

[Semantics of Sequential and Parallel Programs](#) Eike Best,1996 This book present formal semantics of sequential and parallel programs and emphasis formal relationships between different

mathematical description techniques! Providing a self contained introduction to all the necessary mathematics proofs are presented in a readable form which will appeal to the novice It contains an in depth study of the most well known and widely used methods for achieving correctness in program design and presents all technical results at an adequate and easy to learn level Case studies and exercises some of them with solutions help illustrate results

Graph Transformation

Fabio Gadducci, Timo Kehrer, 2021-06-17 This book constitutes the refereed proceedings of the 14th International Conference on Graph Transformation ICGT 2021 which took place virtually during June 24 25 2021 The 14 full papers and 2 tool papers presented in this book were carefully reviewed and selected from 26 submissions They deal with the following topics

theoretical advances application domains and tool presentations

ECAI 2016

G.A. Kaminka, M. Fox, P. Bouquet, 2016-08-24

Artificial Intelligence continues to be one of the most exciting and fast developing fields of computer science This book presents the 177 long papers and 123 short papers accepted for ECAI 2016 the latest edition of the biennial European Conference on Artificial Intelligence Europe's premier venue for presenting scientific results in AI The conference was held in The Hague the Netherlands from August 29 to September 2 2016 ECAI 2016 also incorporated the conference on Prestigious Applications of Intelligent Systems PAIS 2016 and the Starting AI Researcher Symposium STAIRS The papers from PAIS are included in this volume the papers from STAIRS are published in a separate volume in the Frontiers in Artificial Intelligence and Applications FAIA series Organized by the European Association for Artificial Intelligence EurAI and the Benelux Association for Artificial Intelligence BNVKI the ECAI conference provides an opportunity for researchers to present and hear about the very best research in contemporary AI This proceedings will be of interest to all those seeking an overview of the very latest innovations and developments in this field

ACM Transactions on Programming Languages and Systems Association for Computing Machinery, 1999

Advances in Computing Science--ASIAN ..., 1999

Algebraic Methodology and Software Technology, 1995

Applications in Parallel and Distributed Computing

Claude Girault, 1994 Applications in parallel and distributed computing are gaining increasing impact because they are the key to the co operation and even integration of large organizations and services The ever growing demand of computations the mass of related distributed information and reliability requirements have overtaken single machines forcing the use of interconnected ones This publication considers the many challenges and open problems raised by developments and discusses the new ideas concepts and methods supported by new technologies

Report CS-R, 1993

From Logic Programming to Prolog Krzysztof R. Apt, 1997 Provides a systematic introduction to the theory of logic programming and shows how this theory can be applied to reason about pure Prolog programs The text includes an introduction to programming in Prolog and deals with such programming issues as determination occur check freedom and absence of errors It covers both the natural interpretations of logic programming as declarative specification and as procedure for computer execution

IEEE International Conference on Application-Specific Systems, Architectures and Processors Lothar

Thiele (Computer scientist),1997 These conference papers on computer hardware and design and testing include coverage of miscellaneous applications arithmetic algorithms and architectures DSP architectures systolic algorithms and architectures rapid prototyping design methodolgies and compilers

Should Your Specification Language be Typed?

Leslie Lamport, Lawrence C. Paulson, 1997 Abstract Most specification languages have a type system. The languages used in some popular textbooks have half baked type systems that are described informally and never spelled out in detail. Such type systems tend to have unexpected consequences if not outright inconsistencies. Set theory can serve as the basis for a specification language without types. This possibility which has been widely overlooked offers many advantages. Set theory is simpler and more flexible than most typed formalisms. Polymorphism, overloading and subtyping can make a type system more powerful but at the cost of increased complexity and such refinements can never attain the flexibility of having no types at all. Typed formalisms have advantages too stemming from the power of mechanical type checking. While types serve little purpose in hand proofs they do help with mechanized proofs. In the absence of verification type checking can catch errors in specifications. It may be possible to have the best of both worlds by adding typing annotations to an untyped specification language. We consider only specification languages not programming languages

Forthcoming Books Rose Arny, 1997-04

Documentation Abstracts ,1997

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